SAMPLE APPLICATION PACKAGE

- a) Cover Letter
- b) Authorization Letter
- c) Wetland Impacts/ Minimization Information
- d) Hydraulic Review Information
- e) An application package addressing the following project components:
- 1) Utility Crossing
- 2) Culvert Replacement
- 3) Stream Relocation
- 4) Stormwater Outlet Pipe
- 5) Bridge Replacement
- 6) Wetland Fill

(fill out sections 10 A,B, &18, attach sketches)

(fill out sections 10A,B,C, 13 & 14, attach sketches)

(fill out sections 10A, B, C, & 15, attach sketches)

(fill out sections 10C & 10J, attach sketches)

(fill out sections 10A,B,C, 13 & 14,attach sketches)

(fill out section 12, attach sketches)

Please note, this is a sample application package only. We have attempted to highlight those portions of projects that are most likely to be encountered when dealing with a public road project. Your specific project may require additional portions of the application form to be filled out. You only need to submit the applicable sections that apply to your project.

Spalding Design

January 15, 2003

(Sample Application Cover Letter)

Michigan Department of Environmental Quality Land and Water Management Division Transportation and Flood Hazard Management Unit P.O. Box 30458 Lansing, Michigan 48909-7958

SUBJECT: MDEQ-LWMD Application for Pratt Road

Enclosed is a permit application to remove and replace the existing culvert at the Pratt Road crossing of the Tibbetts Drain, and also the removal and replacement of the existing Pratt Road bridge crossing of the Bad Creek. Additional work includes the installation of a utility crossing under Tibbetts Drain, a stormwater outlet pipe at Watson Drain and 85 feet of relocation of the Watson Drain. Wetland fill in the amount of 89 cubic yards impacting 0.013 acres of wetland is proposed. The project is located in Sections 15, 16, 21, and 22, T6N, R3W, Riley Township, River County.

As this application is for a public transportation agency involving work on a public road, application fees are not required under the Memorandum of Understanding between the MDEQ and the transportation agencies.

I have enclosed a letter of authorization from the River County Road Commission to act on their behalf. Also enclosed are a letter and my findings regarding the hydraulic impacts of the proposed structures and justification for the wetland impacts.

If you have any questions, please feel free to contact me.

Sincerely

Jane Sult

Jane Smith Spalding Design

Enclosure:

cc: Mr. John Doe, River County Road Commission

River County Road Commission

January 15, 2003 (Sample Authorization letter)

Mr. Jane Smith Spalding Design P.O. Box 555 Lansing, Michigan 48909

Dear Ms. Smith:

SUBJECT: Pratt Road over Tibbetts Drain, Watson Drain, and Bad Creek

This letter is written in regards to the Pratt Road over Tibbetts Drain, Watson Drain, and Bad Creek. I am authorizing Spalding Design to act as our agent to apply for and secure a Michigan Department of Environmental Quality Permit for the above subject project. Please call if you have any questions. Thanks.

Sincerely,

John Doe, Manager

River County Road Commission

Spalding Design

January 15, 2003

Sample Wetland Impacts Justification and Minimization

(This is the type of additional information that would be needed in box number 4 of the application. If there is not enough room in the box then additional information may be attached.)

SUBJECT: Wetland Impacts for Pratt Road

The proposed widening of Pratt Road near the Bad Creek will impact 0.013 acres of wetland through the placement of 89 cubic yards of fill. The road widening was necessitated to meet current road safety standards. On this type of road system, with a design speed of 55 mph, the minimum lane width is 11 feet with 3 feet of shoulder. Impacts have been minimized in the wetland areas by using these minimum road widths and side slopes allowed. It is our understanding that because the wetland impacts are less than 0.1 acre that no mitigation is required.

If you have any questions please feel free to contact me.

Sincerely

Jane Smith Spalding Design

Spalding Design

January 15, 2003

(Sample Additional Hydraulic Information)

SUBJECT: Hydraulic Reviews for Pratt Road

The following additional hydraulic information is provided with this application to replace the Tibbetts Drain and Bad Creek crossings

1) Pratt Road at Tibbetts Drain

The proposed 40 foot long, 5 foot span by 4 foot rise concrete box culvert is designed with an equal or greater hydraulic capacity when compared to the existing 20 foot long, 5 foot span by 3 foot rise concrete box culvert. The proposed road grade matches the existing road grade. The hydraulic computations to support this conclusion are attached.

2) Pratt Road at Bad Creek

The proposed 38 foot long, 38 foot span by 6 foot rise concrete box beam bridge together with its higher road grade is designed with an equal or greater hydraulic capacity when compared to the existing 18 foot long, 18 foot span by 5 foot rise concrete box beam bridge. The hydraulic computations to support this conclusion are attached.

Sincerely

Jane Smith, P.E. Spalding Design

Michigan	Department of	f Environmental	Quality	MDEO
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	Previous USACE Permit or File Numb	er			Land and Water Manage	ement Division, MD	DEQ File Number	>
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AGENCY USE			O		Fee received \$			SE
-	10 Aug.							<u> </u>
	nplete all items in Sections 1 throug		s in Sections 10 throug	h 21 that apply to the p	project. Clear drawings	and cross sectio	ins must be provide	ed.
	ROJECT LOCATION INFORMATIO er to your property's legal description		Range and Section in	formation and your or	operty tax hill for your P	roperty Tax Iden	tification Number/s	:)
Addres		i tot the Township,	Trange, and Occion in	Township Name(s)	operty tax bili for your r	Township(s)	Range(s) Se	ction(s)
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City/Vi Riley		County(ies) River		Property Tax Identif	rication Number(s)			
Name	of	Project Name or		Subdivision/Plat	Lot N	umber	Private	
Water	oody Tibbetts Drain, son Drain and Bad Creek	Job Number Pra	tt Road				Claim	
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	all that apply) 🔲 building addition		ling or structure	building renovation	or restoration	r restoration	single-fan	nily
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	ace bridge at Pratt Road c				near Bad Creek.			
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5	LOCATING YOUR PROJECT SITE					
	 Provide the requested information liste 	ed below to help staff locate your project site.				
		t, county, or USGS topographic map, clearly sho	wing the site location a	and include an arrow	vindicating the not	th direction.
_	 Project area must be staked at the tim 					
l	s there an access road to the project?	No Yes (If Yes, type of road, check all that	t apply) 🔲 private	🔀 public	improved	unimproved unimproved
l	Name of roads at closest main intersection	on <i>Pratt Road</i> and <i>Francis Road</i>	1			
1			and the second s			
		west from Francis Road approximat		гатт кода то і	IDDETTS UPGIR	and warson
200000	Drain crossing and east 0.7 m	iile on Pratt Road to Bad Creek cros	sing.			
CONSTRUCT						
	Style of house or other building on site [☐ ranch ☐ 2-story ☐ cape cod ☐ bi-level	cottage/cabin	pole barn 🔲 none	other (describ	oe)
	•	acent property house and/or buildings				
	•	s visible on house arage mailt	ox 🗌 sign 🗌 o	ther (describe)		
			oxogno	anor (4000mb0)		
ŀ		ne number Lot number				
ŀ	How can your site be identified if there is					
	Provide directions to the project site,	with distances from the best and nearest visi	ble landmark and wa	terbody From I	Riley City tra	rel south on
	Forest Hill Road 1 mile turn le	eft (East) on Pratt Road go 0.5 mile	to Tibbetts Dro	ain and Watson	i Drain crossir	ig and 1.8 miles
	east of Forest Hill to Bad Cre					
٩				•		
h	Does project cross boundaries of two or	more political jurisdictions? (City/Township, Tow	nship/Township, Coun	ty/County, etc.)		
	No Yes (If Yes, list jurisdiction na					
6	List all other federal, interstate, state	e, or local agency authorizations required for the	proposed activity, inclu	uding all approvals o	or denials received	
Г	Agency Type ap			oved / denied	If denied, reason	
7000	County Drain Commission					
8						
	•					
7	If a permit is issued, date activity will	I commence (M/D/Y) 06 / 19 / 2007		Proposed completi	on date (M/D/Y)	08 / 28 / 2007
	Has any construction activity commence	d or been completed in a regulated area? N	Yes	Were the regulated	activities conduct	ed under a MDEQ
	If Yes, identify the portion(s) underway o	or completed on drawings or	. —	permit? ☐ No ☐	Yes	
	attach project specifications and give cor			If Yes, list the MDE	Q permit number	
		ons of environmental law or litigation involving the	property? 🗌 No 📋	Yes (If Yes, explain	1)	
	·					
8	PUBLIC NOTIFICATION (Attach ac	Iditional sheets if necessary)				
	 Complete information for all adjacent a 	and impacted property owners and the lake asso	ciation or established I	ake board, including	g the contact perso	n's name.
		e requested information for the first adjacent pare	el beyond your proper			
	Property Owner's Name	Mailing Address		City	State 2	Zip Code
	*See Attached		·			
	Name of Established Lake Board	or Lake Association				
1	and the Contact Person's name, phone r					
_		READ CAREFULLY BE	FORE SIGNING			
9	am applying for a permit(e) to sutherize	the activities described herein. I certify that I are		mation contained in	this application th	at it is true and
	accurate and to the hest of my knowled	Ige, is in compliance with the State Coastal Zone	Management Program	n and the National F	lood Insurance Pr	ogram. I understand
	that there are nenalties for submitting fal-	se information and that any permit issued pursua	ent to this application of	nav be revoked if inf	ormation on this a	oplication is untrue.
	I certify that I have the authority to under	take the activities proposed in this application. E	by signing this applicati	on, I agree to allow	representatives of	the MDEQ, USACE,
L	and/or their agents or contractors to ente	er upon said property in order to inspect the prop	osed activity site and the	he completed projec	t. I understand the	at I must obtain all
	other necessary local, county, state, or fe	ederal permits and that the granting of other perr	nits by local, county, st	ate, or federal agen	cies does not relea	ase me from the
	requirements of obtaining the permit requ	uested herein before commencing the activity. I	understand that the pa	yment of the applica	ation fee does not	guarantee the
L	issuance of a permit.					
	 All applicants must complete all of the 	items in Sections 1 through 9 on pages 1 and 2	of this application.			
		through 21 that apply to the project. Submit only		u have provided info	ormation.	
		l if the application form is not completely filled ou				
	 List here the application page number 	s being submitted and a brief description of othe	attachments included	with your application	ก.	
	 Submit 8.5" by 11," 8.5" by 14" or 11" 	by 17" size drawings with 4 copies. The USAC	E requires one set of d	rawings on 8.5" x 11	l" paper, with all no	otations
	clearly legible. Larger copies may be	submitted in addition to the standard size copies	•			
		er must be included if not signed below by the ow	ner.		1	B 1 012552
	Property Owner	Printed Name	Signature	C 1.0		Date (M/D/Y)
		No. and the second of the seco	/AMA	Smith	ી	
1	Corporation – Title	Jane Smith		4.000	-	01 / 03 / 2006

Property Owners

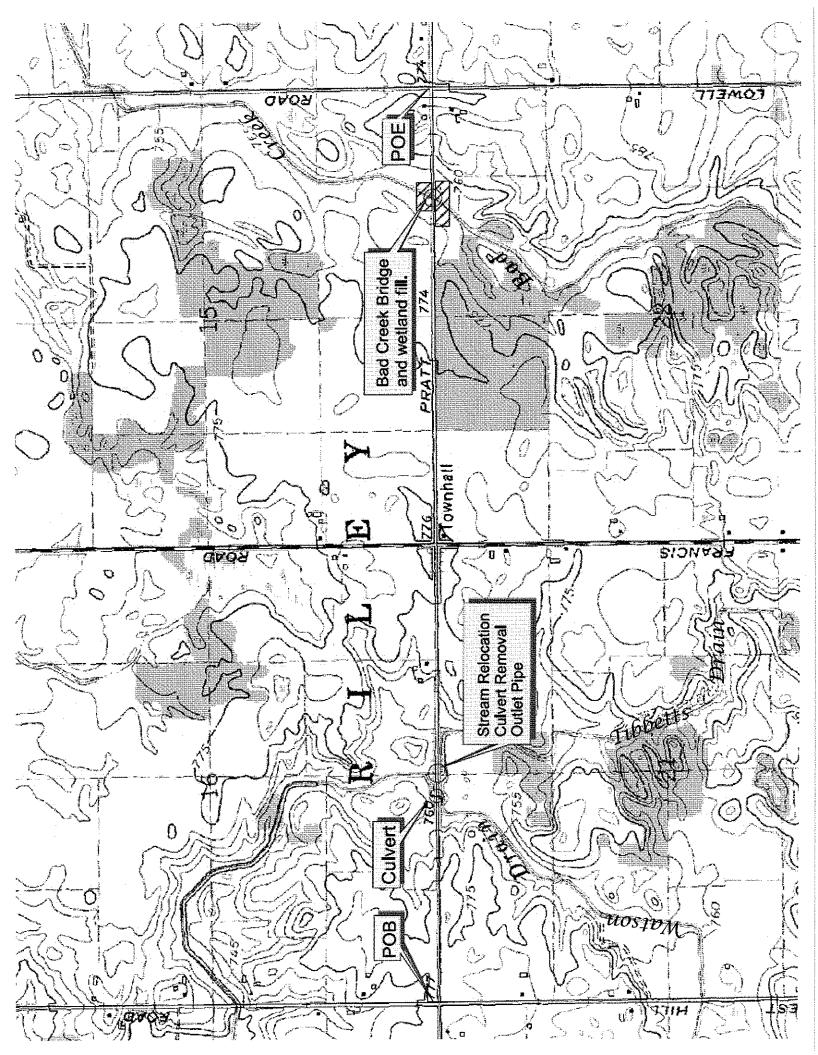
Tibbetts Drain and Watson Drain Culvert crossing Pratt Road

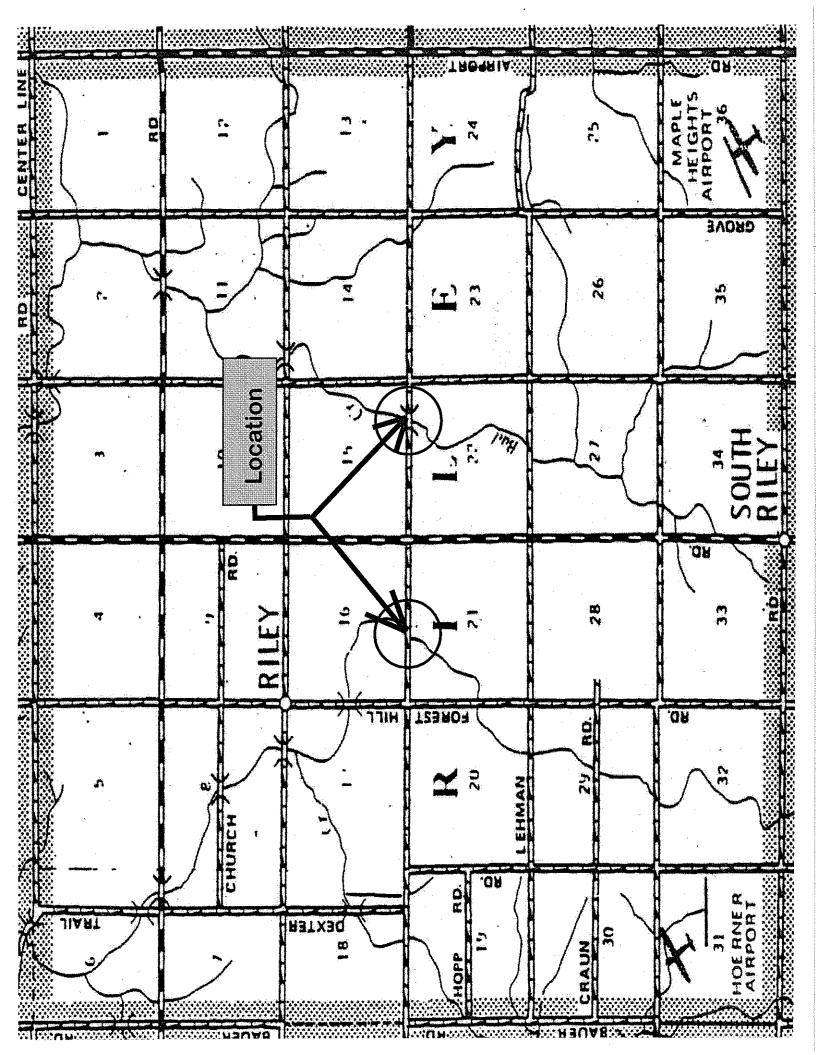
Sally Kime	503 Pratt Road	Riley, MI	48505
George Hawkins	602 Pratt Road	Riley, MI	48505
Tami Tate	523 Pratt Road	Riley, MI	48505
David Farrell	606 Pratt Road	Riley, MI	48505

Bad Creek Bridge Crossing Pratt Road

Sharon Price	902 Pratt Road	Riley, MI	48505
Esther Lagow	904 Pratt Road	Riley, MI	48505
Alan Hanna	901 Pratt Road	Riley, MI	48505
Roger Jacobs	903 Pratt Road	Riley, Mi	48505

Because wetland impacts meet the minor project category the riparians are not needed in those areas.

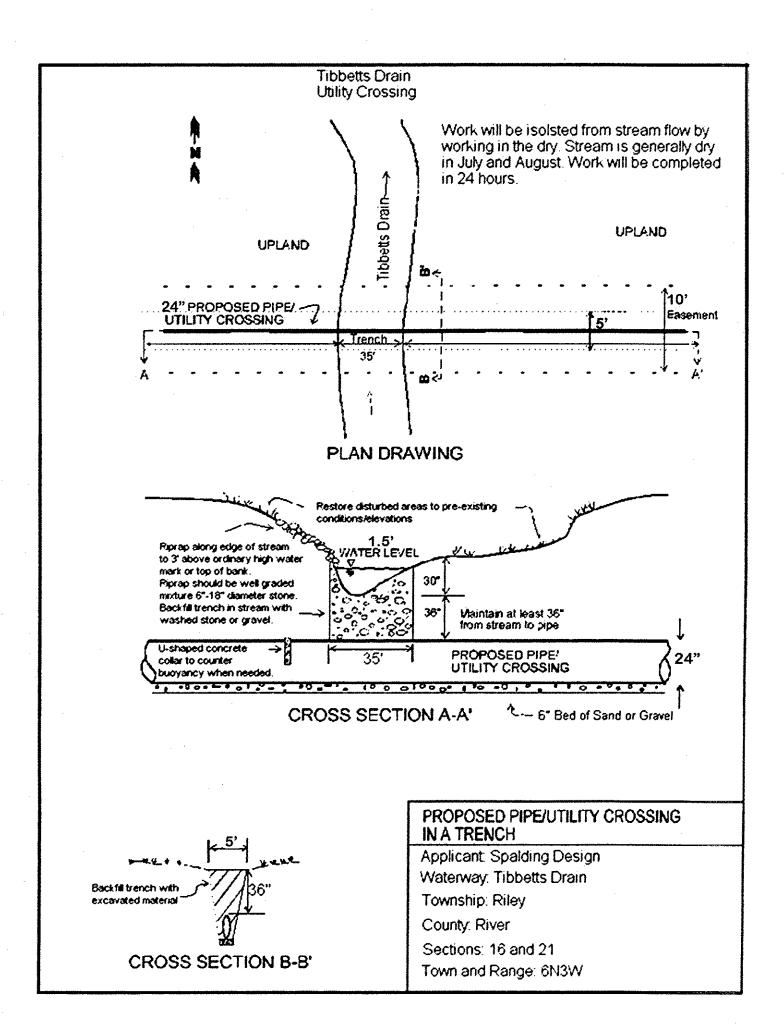




US Army Corps of Engineers (USACE)	Michigan Department of Environmental Quality (MDEQ)
10 PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOCAT	TED ON AN INI AND AKE OF STREAM OF A CREAT LAKE
Check boxes A through N that may be applicable to your project and provi	
 If your project may affect wetlands, also complete Section 12. If your project 	roject may impact regulated floodplains, also complete Section 13.
 Provide an overall site plan showing existing lakes, streams, wetlands, an 	and other water features; existing structures; and the location of all proposed structures, land
	Review sample drawings for guidance in completing site-specific drawings for your project.
Some projects on the Great Lakes require an application for conveyance projects on the Great Lakes require an application for conveyance projects.	ce prior to Joint Permit Application completeness.
On a Great Lake use IGLD 85 surveyed converted from observed	ed still water elevation. On inland waters, NGVD 29 local datum other
Observed water elevation (ft) 95,6 ,date of observation (M/D/Y) A. PROJECTS REQUIRING FILL (See All Sample Drawings)	1) 12 / 03 / 2005
To calculate volume in cubic vards (cu vd) multiply the average length	gth in feet (ft) times the average width (ft) times the average depth (ft) and divide by 27.
Attach both plan and cross-section views to scale showing maximum a	m and average fill dimensions.
(Check all that apply)	☑ riprap ☐ seawall, bulkhead, or revetment ☐ bridge or culvert
□ boat launch □ off-shore swim area □ beach sanding	
	High Water Mark
Fill dimensions (ft)	Total fill volume (cu yd) Maximum water depth in fill area (ft) 3.5
Length width maximum depth Type of clean fill	Will filter fabric be used under proposed fill?
wood chips of ther Excated Moterial	No Yes (If Yes, type)
Source of clean fill on-site, If on-site, show location on site plan	commercial other, If other, attach description of location
Fill will extend 4 feet into the water from the shoreline and upland	f 3 feet out of the water. Fill volume below OHWM (cu yd) 22.8
■ B. PROJECTS REQUIRING DREDGING OR EXCAVATION (For dredging or excavation)	dging projects see Sample Drawing 7, for excavation see other applicable Sample Drawings)
To calculate volume in cubic yards (cu yd), multiply the average length	gth in feet (ft) times the average width (ft) times the average depth (ft) and divide by 27.
 Attach both plan and cross-section views to scale showing maximum a The applicant will be notified if sediment sampling is required. 	in and average dredge of excavation dimensions.
	land dredge or draining
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	It launch
Total dredge/excavation Dimensions	Dredge/excavation volume below Method and equipment for dredging
volume (cu yd) 35.6 length 35 width 5 depth	
	Will dredged or excavated spoils be placed on-site off-site. Attach a detailed disposal area
The state of the s	site plan, location map. If dispose off site, provide address and letter of authorization. Backfill
Has this same area been previously dredged? No ☐ Yes (If Yes, provided the dead area ☐ No ☐ Yes)	
If Yes, are you proposing to enlarge the previously dredged area No	
Is long-term maintenance dredging planned? No Yes (If Yes, wh C. PROJECTS REQUIRING RIPRAP (See Sample Drawings 2, 3, 8, 12	
C. PROJECTS REQUIRING RIPRAP (See Sample Drawings 2, 3, 6, 12	Volume(cu yd)
Riprap waterward of the shoreline OR ✓ ordinary high water mark	
	Volume(cu yd)
Riprap landward of the Shoreline OR a ordinary high water mark	Dimensions length 4' width 3' depth 0.5 22
WARRIES	Will filter fabric be used under proposed riprap? ☐ No 🏻 Yes
Type of riprap I field stone angular rock other	(If Yes, type) Nonwoven geotextile fabric
D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and (check all that apply)	Distances of project
☐ riprap – length (ft.) ☐ seawallibulkhead – length (ft.)	<u> </u>
E. DOCK - PIER - MOORING PILINGS (See Sample Drawing 10)	
Type open pile filled crib	Seasonal structure? No Yes
Proposed structure dimensions (ft) length width	Dimensions of nearest adjacent structures (ft) length width
F. BOAT WELL (No Sample Drawing available)	
Type of bank stabilization wood steel concrete vinyl	/ ········· / · · · · · · · · · · · · ·
Boat well dimensions (ft)	Number of boats
Length width depth	This is a second to the second
Volume of backfill behind sidewall stabilization (cu yd)	Distances of boat well from adjacent property lines (ft) pply) new existing public private commercial replacement
G. BOAT LAUNCH (No Sample Drawing available) (check all that apple Proposed overall boat launch dimensions (ft)	
length width depth	Type of material
Existing overall boat launch dimensions (ft)	Boat launch dimensions (ft) below ordinary high water mark Length width depth
Length width depth Distances of launch N	Length width depth Number of Skid pier
	skid piers dimensions (ft) width length
H. BOAT HOIST (No Sample Drawing available)	
(Check all that apply) seasonal permanent cradle side	side lifter
other Standard WETLANDS OF STANDS	located on seawall dock bottomlands
	DDPLAINS (See Sample Drawings 5 and 6. Provide table if necessary) pe 3 of 7 EQP 2731 Revised 12/2005
John Cennic Application Fage of	2007.

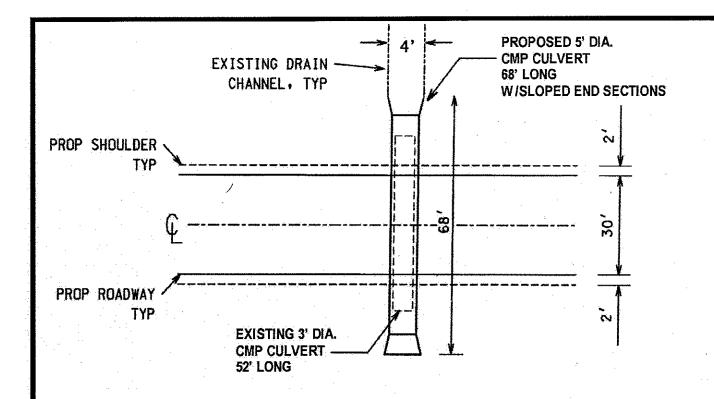
Joint Permit Application

US Army Corp	s of Engineers (U	ISACE) Hilitu	Cossina I	Department of E	nyironmental Quality	(MDEQ) DEQ
 DRAWDOWN OF AN IMP If wetlands will be impacted 	POUNDMENT		9		(13 2/4")	
Type of drawdown over winte		one-time event 🔲 ann	ual event permane	nt (<i>dam</i> removal)	other	· · · · · · · · · · · · · · · · · · ·
Reason for drawdown						
1) Ab b	Inna D Na D Van	//f.V.s. provide data /84/	DAA / /		Previous MDEQ permit	
Has there been a previous drawd					number, if known	
Does waterbody have established	d legal lake level?				Dam ID Number, if know	<u>]</u>
Extent of vertical			ooundment		Number of adjacent or	
drawdown (ft) Date drawdown would start			sign head (ft) ie drawdown		impacted property owner Rate of drawdown	<u> </u>
(M/D/Y) / /			ald stop (M/D/Y)	, ,	(ft/day)	
Date refilling would start			e refill		Rate of refill	
(M/D/Y) / /		4	uld end (M/D/Y)	, ,	(ft/day)	
Type of outlet discharge structure	e to be used		oundment area at	<u> </u>	Sediment depth behind in	npoundment
	mid-depth	1 '	mal water level (acres)		discharge structure (ft)	,
DAM, EMBANKMENT, D If wetlands will be impacted Attach site-specific concept Detailed engineering plans Attach detailed engineering Which one best describes your p dam repair	I, also complete Section I all plans for construct I are required once the I plans for a dam repair I new dam I ration I dam abar	on 12. tion of a new dam, recons activity has been determing r, dam alteration, dam abaconstruction recorded recorded recorded.	truction of a failed dam, ned to be permitable fro andonment, or dam rem astruction of a failed dan removal	or enlargement of a m an environmental oval. n	standpoint. ement of an existing dam	
<i>Dam</i> ID Number If known		Type of outlet discharge st			e a drawdown of the waterbook also complete Section 16)	
Riprap		Dredging/excavation	Fill volume		es structure allow complete	
Volume (cu yd)		Volume (cu yd)	(cu yd)		ainage of waterbody? No	
Benchmark	Datum used		(02)4)		ark and show on plans	
elevation (ft)	☐ Local	☐ NGVD 29 ☐ otl	her		and short on praire	
Have you engaged the services of Will a water diversion during consproposed project activities)						tion area during the
 The following additional info 	ormation is required fo	r a new dam, reconstructi	on of a failed dam, or er	largement of an exis	sting dam.	
Describe the type of dam and house the control of t		dam and embankment to delaw and embankment to delaw and embankment to delaw and elevation at downstream			dam. embankment top elevation	
elevation (ft)	embankmer		1	•	am embankment toe) (ft)	
Embankment length (ft)		<u> </u>	kment bottom width (ft)			
• ()			.,	(vertical / horizon	•	
Proposed normal	<u>'</u>	mpoundment flood elevati	on (ft) Maximum	17	apability (ft) (Attach operati	onal procedure of the
pool elevation (ft)		,		structure, if available		,
Have soil borings been taken at o ☐ No ☐ Yes		☐ No ☐	_	vided?	Do you have flowage right flooded property at the de la No Yes	
(If Yes, submit results with permit			vert elevation (ft.)		INO res	
 UTILITY CROSSINGS (Set If side casting is required, co Attach additional sheets with 	omplete Subsections	IOA and 10B. If spoils will		or wetlands may be i	mpacted, complete Section	12.
What method will be used to cons		· · · · · ·		. •	Inland Lake or Stream	□floodplain
	rench jack and b Number of	ore directional drilling Number of inland lake or		l_l international war	aters wetlands (also con Distance below streambed wetland (in)	or Transh width (%)
	wetland crossings	stream crossings	Pipe diameter (in.)	crossing (ft.)	wetland (in.)	rench width (ft.)
sanitary sewer						
storm sewer			24"	351	36"	5'
watermain	0			<i>32</i>	30	
Cable						



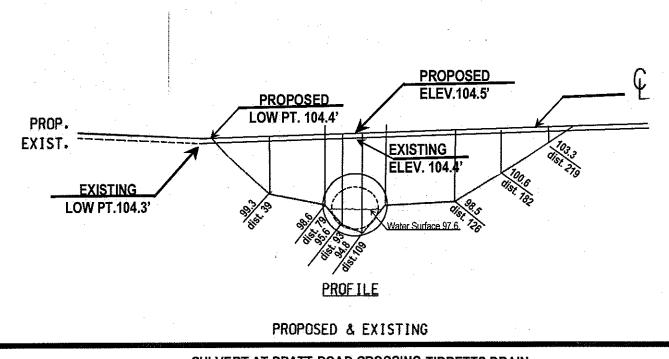
US Army Corps of Engineers (USACE)	Michigan Department of Environmental Quality (MDEQ)
10 PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOCATED ON	AN IN AND ARE OF STRAM OF A CREAT LAKE
 PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOCATED ON Check boxes A through N that may be applicable to your project and provide the r 	
 If your project may affect wetlands, also complete Section 12. If your project may 	
 Provide an overall site plan showing existing lakes, streams, wetlands, and other to the provide an overall site plan showing existing lakes, streams, wetlands, and other to the provide an overall site plan showing existing lakes. 	water features: existing structures: and the location of all proposed structures, land
change activities and soil erosion and sedimentation control measures. Review s	ample drawings for guidance in completing site-specific drawings for your project.
Some projects on the Great Lakes require an application for conveyance prior to	oint Permit Application completeness.
On a Great Lake use IGLD 85 surveyed converted from observed still water	er elevation. On inland waters. NGVD 29 local datum. other
Ohra Great Eake use ISED to	
() () () () () () () () () ()	3
 A. PROJECTS REQUIRING FILL (See All Sample Drawings) To calculate volume in cubic yards (cu yd), multiply the average length in feet 	ft) times the average width (ft) times the average depth (ft) and divide by 27
Attach both plan and cross-section views to scale showing maximum and aver	age fill dimensions
(Check all that apply)	
	patwell crib dock Softer OHWM Ordinary
Boar laterion	High Water Mark
Fill dimensions (ft)	Total fill volume (cu yd) Maximum water
Length width maximum depth	24.9 depth in fill area (ft) 1.5
Type of clean fill ☐ pea stone ☐ sand ☒ gravel	Will filter fabric be used under proposed fill?
wood chips other riprop	No ☐ Yes (If Yes, type)
Source of clean fill on-site, If on-site, show location on site plan cor	mercial other, If other, attach description of location
Fill will extend 5 feet into the water from the shoreline and upland 6 feet out of	the water. Fill volume below OHWM (cu yd) .74
B. PROJECTS REQUIRING DREDGING OR EXCAVATION (For dredging proje	cts see Sample Drawing 7, for excavation see other applicable Sample Drawings)
To calculate volume in cubic yards (cu yd), multiply the average length in feet	ft) times the average width (ft) times the average depth (ft) and divide by 27.
 Attach both plan and cross-section views to scale showing maximum and aver 	age dredge or excavation dimensions.
The applicant will be notified if sediment sampling is required.	
(Check all that apply)	
navigation boat well boat launch	⊠ other OHWM
Total dredge/excavation Dimensions	Dredge/excavation volume below Method and equipment for dredging
volume (cu yd) 3,1 length 68 width 2,5 depth 5	OHWM (cu yd) 3.1 In the dry with backhoe
,	ed or excavated spoils be placed on-site off-site. Attach a detailed disposal area
	location map. If dispose off site, provide address and letter of authorization.
Has this same area been previously dredged? ☒ No ☐ Yes (If Yes, provide of	
If Yes, are you proposing to enlarge the previously dredged area No Yes	
Is long-term maintenance dredging planned? No Yes (If Yes, when and	
C. PROJECTS REQUIRING RIPRAP (See Sample Drawings 2, 3, 8, 12, 14, 17	1000 Mar. 1 1000 M
Riprap waterward of the shoreline OR ☑ ordinary high water mark Dim	ensions (ft) length 5 width 4 depth 0.5 Volume(cu yd) 37
Riprap landward of the Shoreline OR ordinary high water mark	ensions length 10 width 6 depth 0.5 Volume(cu yd) 1.1
	Will filter fabric be used under proposed riprap? ☐ No ☐ Yes
Type of riprap ☐ field stone ☐ angular rock ☐ other	(If Yes, type) geotextile
D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17)	,
(check all that apply)	Distances of project
☐ riprap – length (ft.) ☐ seawall/bulkhead – length (ft.)	revetment – length (ft.) from both property lines (ft)
E. DOCK - PIER - MOORING PILINGS (See Sample Drawing 10)	
Type open pile filled crib	Seasonal structure? No Yes
Proposed structure dimensions (ft) length width	Dimensions of nearest adjacent structures (ft) length width
F. BOAT WELL (No Sample Drawing available)	
Type of bank stabilization wood steel concrete vinyl ripro	
Boat well dimensions (ft)	Number of boats
Length width depth	
Volume of backfill behind sidewall stabilization (cu yd)	Distances of boat well from adjacent property lines (ft)
	ew existing public private commercial replacement
Proposed overall boat launch dimensions (ft)	
length width depth	Type of material ☐ concrete ☐ wood ☐ stone ☐ other
Existing overall boat launch dimensions (ft)	Boat launch dimensions (ft) below ordinary high water mark
Length width depth	Length width depth
Distances of launch Number of	
from both property lines (ft) skid piers	l '
H. BOAT HOIST (No Sample Drawing available)	1
(Check all that apply) seasonal permanent cradle side lifter	
other	located on seawall dock bottomlands
I. BOARDWALKS AND DECKS IN WETLANDS - OR - FLOODPLAINS	
(Check all that apply) boardwalk deck Boardwalk or deck	
→ u_neck all that apply + + phatowalk + + deck + Boatowalk of deck	is on a pain and a particulation by length with

US Army Corps of Engineers	(USACE)	alvert!	Cross Mic	higan Dep	bbetts	nvironme Drai	ntal Qualit	ty (MDEQ)	DE®
 FLOODPLAIN ACTIVITIES (See Sample Dr Attach additional sheets with the requested info 		s may apply.		~					
(check all that apply) 🖾 fill 🔲 excavation	other								
Site is 95.6 feet above ordinary high water i	nark (OHWM) (OR 🛛 observe	ed water level	. Date of obse	ervation (M/D/Y)	12/03/	<i>95</i>		
Fill volume below the 100-year floodplain elevation (cu yd) 22 <i>Placed in t</i>	bad awand		raus.	C		مطاه بدیداده			
stabilization	ne + quanu		rope		sating cut volume floodplain elevat		0		
 BRIDGES AND CULVERTS (Including Foot Provide detailed site-specific drawings of exist Cross-Section (Sample Drawing 14C), Stream Provide the requested information that applies If you choose to have a Licensed Professional including the 100-year flood discharge, then yor report supporting this certification may also be Attach additional sheets with the requested inf 	ing and propos Profile (Sampl to your project Engineer *cert ou must use the required.	ed Plan View (e Drawing 14D . If there is not ify" that your pr e "Required Ce) and Floodpl t an existing s roject will not o rtification Lan	ain Fill (Samp tructure, leave cause a *harm guage." You	le Drawing 5) at the "Existing" co ful interference" may request a co	a scale ade olumn blank for a range	quate for deta of flood disch	ailed review. parges up to a	and
		Existing	Proposed					Existing	Proposed
Culvert type (box, circular, arch) and material (corrugated metal, timber, concrete, etc.)		Concrete CMP	Concrete CMP		(length perpendio ☑ width 🔲 diar		am)	3	5
Bridge type (concrete box beam, timber, concrete I-beam, etc.)				OR culvert le	(parallel to streamingth (ft)	•		52	68
Entrance design (projecting, mitered, wingwalls, etc.)		Projecting	Projecting	Bridge rise (fi	rom bottom of be	eam to stream	mbed) OR bed) (ff)	3	5
Total structure waterway opening above streambed (sq ft)		7	19	- Currott noo 1	morn top or our	or to ou oan	200) (11)	.J	
	Upstream	101.0	100.7	Higher elevat	ion of 🗵 culver	t invert OR	Upstream	98	95.7
bottom of bridge beam (ft)	Downstream	99.1	100.6	streambe	d within culvert (ft)	Downstream	96,1	95.6
Elevation of road grade at structure (ft)		104.4	104.5		n low point of roa			12	12
Elevation of low point in road (ft)		104.3	104.4	to ma point c	or bridge crossing	3 \1.7			
Cross-sectional area of primary channel (sq ft) (See Sample Drawing 14C)				am width at O			Upstrea Downstr	m 4 ream 4	
Reference datum used (show on plans with descript	ion) 🔲 NGVI	⊃ 29 🔲 IGLE	9 85 (Great La	kes coastal a	reas) 🗵 local				
High water elevation – describe reference point and	highest known	water level abo	ove or below i	reference poin	t and date of obs	servation.			
 STREAM, RIVER, OR DRAIN CONSTRUC' Complete Section 10A for fill, Section 10B for dr If side casting or other proposed activities will in Provide an overall site plan showing existing lak change activities. Provide cross-section (elevat For activities on legally established county drain 	edge or excava npact wetlands es, streams, we ion) drawings n	ation, and Secti or floodplains, etlands, and otl ecessary to cle	ion10C for <i>ripi</i> complete Sec her water feat early show exi	rap activities. tions 12 and 1 ures; existing sting and prop	structures; and toosed conditions.	he location (of all propose indicate drav	d structures a	and land
(check all that apply)	ement 🔲 rel	ocation 🗌	enclosure [new drain	wetlands	other			
Dimensions (ft) of existing stream/drain channel to b			w	idth	depth	<u> </u>			
Dimensions (ft) of new, relocated, or enclosed streat	m/drain channe epth	ıl.				of Dredge/ tion (cu yds)			
Existing channel average water depth in a normal year				Proposed	side slopes (ver	· · · ·			
How will slopes and bottom be stabilized?									
Will old/enclosed stream channel be backfilled to top	o of bank grade	?	Yes	Length of ch			Volume o	of fill (cu yds)	
If an enclosed structure is proposed, check type] concrete [corrugated i			other				
Dimensions of the structure size length Will spoils be disposed of on site? No Yes (I	f Yes, show loc		me of fill on site plan in	an unland an	ea.)				
rain about no diabosed of our alie; 17 140 17 169 (. 100, 0110W 100	anon or opons	on one plair it	· ······	-u.,				

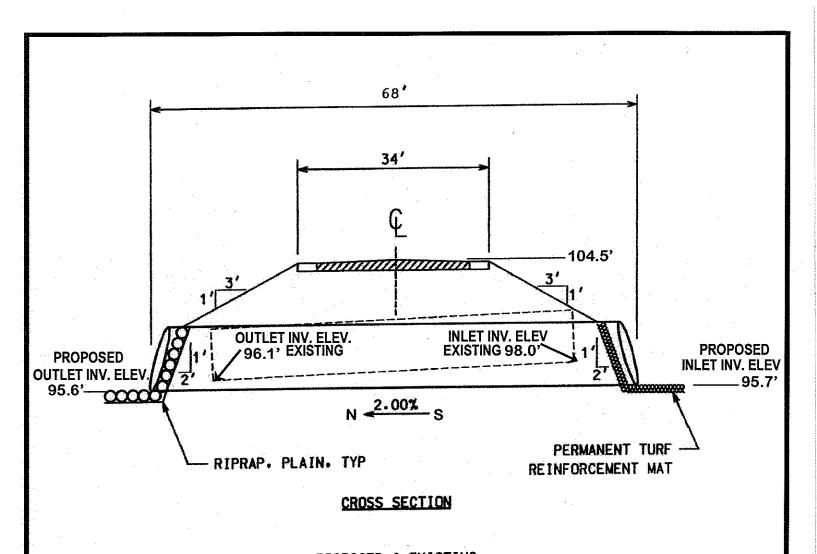


PLAN

PROPOSED & EXISTING



CULVERT AT PRATT ROAD CROSSING TIBBETTS DRAIN
RILEY TOWNSHIP
RIVER COUNTY
T06N R03W SECTIONS 16 AND 21

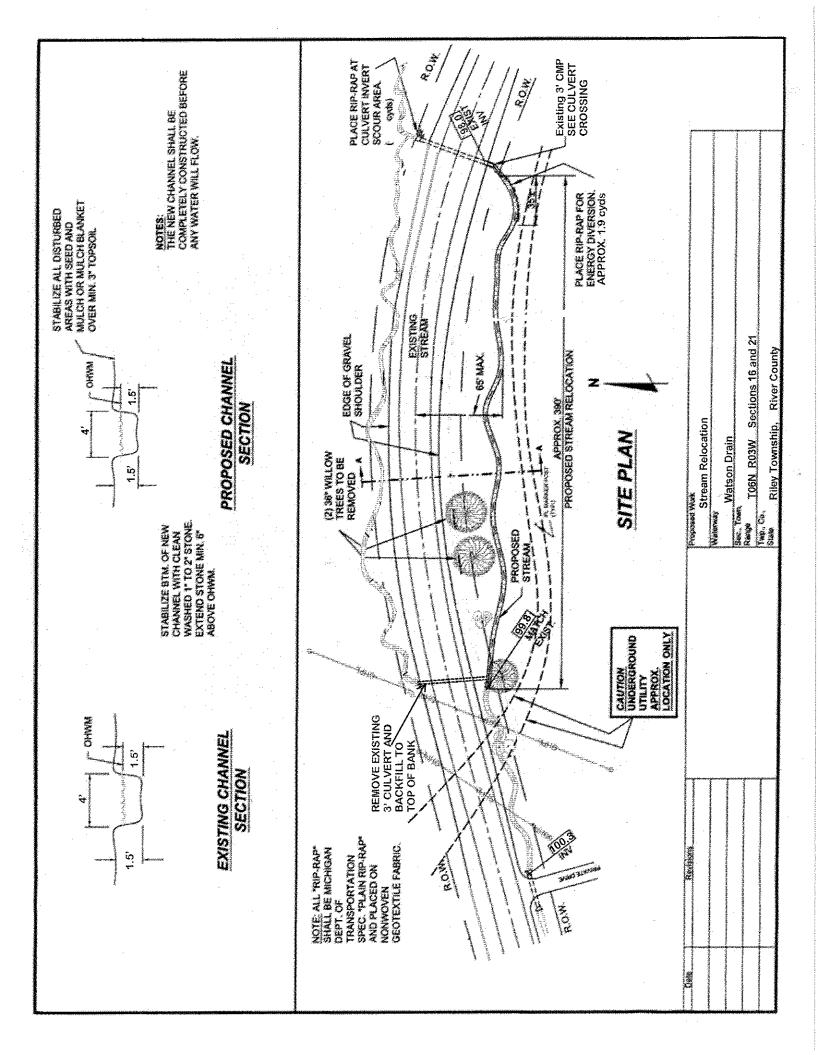


PROPOSED & EXISTING

CULVERT AT PRATT ROAD CROSSING TIBBETTS DRAIN RILEY TOWNSHIP RIVER COUNTY T06N R03W SECTIONS 16 AND 21

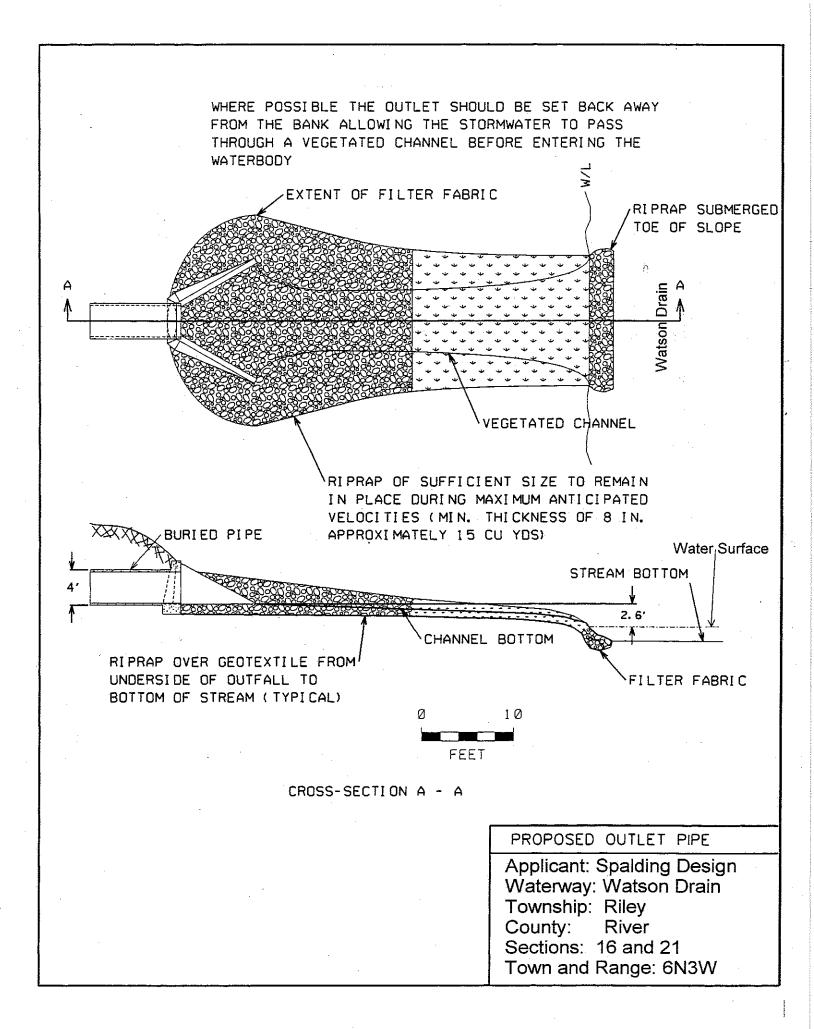
US Army Corps of Engineers (USAGE)	Michigan Depart	ment of Environmental Qua	ality (MDEQ) DE
Jramk	elocatione W	Mson Drain	
 PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOCATED Check boxes A through N that may be applicable to your project and provide 		REAM OR A GREAT LAKE	
 Theck boxes A through N that may be applicable to your project and provide If your project may affect wetlands, also complete Section 12. If your project 	me requested information. may impact regulated floodplai	ins, also complete Section 13	
Provide an overall site plan showing existing lakes, streams, wetlands, and of	her water features: existing str	uctures; and the location of all propo	osed structures, land
change activities and soil erosion and sedimentation control measures. Review	ew sample drawings for guidan	ce in completing site-specific drawin	ngs for your project.
Some projects on the Great Lakes require an application for conveyance prior	r to Joint Permit Application co	mpleteness.	. ,, ,
● On a Great Lake use IGLD 85 ☐ surveyed ☐ converted from observed still	water elevation. On inland wa	iters, 🗌 NGVD 29 🔀 local datum	other other
	1/03/2005		
A. PROJECTS REQUIRING FILL (See All Sample Drawings)			
To calculate volume in cubic yards (cu yd), multiply the average length in		h (ft) times the average depth (ft) an	d divide by 27.
 Attach both plan and cross-section views to scale showing maximum and 			
			e or culvert
	boatwell crib dock		Stream Relocation
Fill dimensions (ft)	Total fill volum		
Length width maximum depth	94.5	depth in fill area	
Type of clean fill pea stone sand gravel	TOTAL	Iter fabric be used under proposed fi	107
wood chips other Backfill existing stream with excave		o Yes (If Yes, type)	
		other, attach description of location	
Fill will extend feet into the water from the shoreline and upland	feet out of the water.	Fill volume below OH	
B. PROJECTS REQUIRING DREDGING OR EXCAVATION (For dredging)	projects see Sample Drawing 7	, for excavation see other applicable	e Sample Drawings)
To calculate volume in cubic yards (cu yd), multiply the average length in			a divide by 21.
 Attach both plan and cross-section views to scale showing maximum and The applicant will be notified if sediment sampling is required. 	average dredge or excavation	differisions.	
	redge or draining	seawall, bulkhead, or revetment	
navigation boat well boat launc		other Stream relocation	
Total dredge/excavation Dimensions	Dredge/excavation vo	101 (741 144 144 144 144 144 144 144 144 144	ipment for dredging
volume (cu yd) 86.7 length 390 width 4 depth 1.5	OHWM (cu yd) 86		vith excavator
Has proposed dredge material been tested for contaminants? Will of	redged or excavated spoils be	placed ⊠ on-site off-site. Attac f site, provide address and letter of a	ch a detailed disposal area
Has this same area been previously dredged? No Yes (If Yes, prov			/
If Yes, are you proposing to enlarge the previously dredged area \(\sqrt{N} \) \(\sqrt{N} \)		availability , ,	,
Is long-term maintenance dredging planned? No Yes (If Yes, when			
C. PROJECTS REQUIRING RIPRAP (See Sample Drawings 2, 3, 8, 12, 14		(vlage	
	Dimensions (ft) length 35	width 1.5' depth .5'	Volume(cu yd) 4.7
		vidth 3' depth 1,5'	voidino(od yo) kake
		viata 🐲 debin 💵 🗗	Malussa/aurus) 24 18
Riprap landward of the Shoreline OR ordinary high water mark			Volume(cu yd) 3.1
	Will filte	er fabric be used under proposed rip	rap? ☐ No ☒ Yes
Type of riprap █ field stone ☐ angular rock ☐ other	Will filte (If Yes,		rap? ☐ No ☒ Yes
Type of riprap is field stone □ angular rock □ other □ D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17	Will filte (If Yes,	er fabric be used under proposed rip. type) Nonwoven Geotextile	rap? □ No ⊠ Yes Fabric
Type of riprap	Will filte (If Yes,	er fabric be used under proposed rip type) Nonwoven Geotextile Distances of p	rap? ☐ No ☒ Yes Fabric project
Type of riprap	Will filte (If Yes,	er fabric be used under proposed rip type) Nonwoven Geotextile Distances of p	rap? □ No ⊠ Yes Fabric
Type of riprap	Will filte (If Yes,) ☐ revetment – length (er fabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro	rap? ☐ No ☒ Yes Fabric project
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply) riprap − length (ft.) seawall/bulkhead − length (ft.) E. DOCK - PIER − MOORING PILINGS (See Sample Drawing 10) Type open pile filled crib	Will filte (If Yes,) ☐ revetment – length (er fabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro	rap?
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply) riprap – length (ft.) seawall/bulkhead – length (ft.) E. DOCK - PIER – MOORING PILINGS (See Sample Drawing 10) Type open pile filled crib Proposed structure dimensions (ft) length width	Will filte (If Yes,) ☐ revetment – length (er fabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro	rap?
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply) riprap – length (ft.) seawall/bulkhead – length (ft.) E. DOCK - PIER – MOORING PILINGS (See Sample Drawing 10) Type open pile filled crib Proposed structure dimensions (ft) length width F. BOAT WELL (No Sample Drawing available)	Will filte (If Yes,)	er fabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro	rap?
Type of riprap	Will filte (If Yes,) ☐ revetment – length (er fabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro ure? \[\] No \[\] Yes nearest adjacent structures (ft) lenger	rap?
Type of riprap	Will filte (If Yes,) revetment - length (Seasonal struct Dimensions of r	er fabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro ure? \[\] No \[\] Yes nearest adjacent structures (ft) lenger	rap?
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply)	Will filte (If Yes,	er fabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro ure? \(\sqrt{No} \sqrt{Yes} \) nearest adjacent structures (ft) lenges	rap? No Yes Fabric project perty lines (ft)
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply) seawall/bulkhead − length (ft.) E. DOCK - PIER − MOORING PILINGS (See Sample Drawing 10) Type open pile filled crib Proposed structure dimensions (ft) length width F. BOAT WELL (No Sample Drawing available) Type of bank stabilization wood steel concrete vinyl Boat well dimensions (ft) Length width depth Volume of backfill behind sidewall stabilization (cu yd)	Will filte (If Yes,	er fabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro ure? No Yes nearest adjacent structures (ft) lenges at well from adjacent property lines	rap? No Yes Fabric project perty lines (ft)
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply) riprap – length (ft.) seawall/bulkhead – length (ft.) E. DOCK - PIER – MOORING PILINGS (See Sample Drawing 10) Type open pile filled crib Proposed structure dimensions (ft) length width F. BOAT WELL (No Sample Drawing available) Type of bank stabilization wood steel concrete vinyl Boat well dimensions (ft) Length width depth Volume of backfill behind sidewall stabilization (cu yd) G. BOAT LAUNCH (No Sample Drawing available) (check all that apply)	Will filte (If Yes, If	er fabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro ure? No Yes nearest adjacent structures (ft) lengues at well from adjacent property lines of private commercial replacements.	rap? No Yes Fabric project perty lines (ft) gth width (ft) cement
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply)	Will filte (If Yes, If	er fabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro ure? No Yes nearest adjacent structures (ft) lenges at well from adjacent property lines	rap? No Yes Fabric project perty lines (ft) gth width (ft) cement
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply) riprap – length (ft.) seawall/bulkhead – length (ft.) E. DOCK - PIER – MOORING PILINGS (See Sample Drawing 10) Type open pile filled crib Proposed structure dimensions (ft) length width F. BOAT WELL (No Sample Drawing available) Type of bank stabilization wood steel concrete vinyl Boat well dimensions (ft) Length width depth Volume of backfill behind sidewall stabilization (cu yd) G. BOAT LAUNCH (No Sample Drawing available) (check all that apply)	Will filte (If Yes,)	er fabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro ure? No Yes nearest adjacent structures (ft) lengues at well from adjacent property lines of private commercial replacements.	rap? No Yes Fabric project perty lines (ft) gth width (ft) cement
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply)	Will filte (If Yes,)	rfabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro ure? No Yes nearest adjacent structures (ft) leng at well from adjacent property lines of p. private commercial replacements and private structures of p. from both pro at well from adjacent property lines of p. from both pro at well from adjacent p. from both p. from b	rap? No Yes Fabric project perty lines (ft) gth width (ft) cement
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply)	Will filte (If Yes,)	rfabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro rure? No Yes nearest adjacent structures (ft) leng s at well from adjacent property lines of private commercial replacements and private depth Skid pier	rap? No Yes Fabric project perty lines (ft) gth width (ft) cement
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply) riprap – length (ft.) seawall/bulkhead – length (ft.) E. DOCK - PIER – MOORING PILINGS (See Sample Drawing 10) Type open pile filled orib Proposed structure dimensions (ft) length width F. BOAT WELL (No Sample Drawing available) Type of bank stabilization wood steel concrete vinyl Boat well dimensions (ft) Length width depth Volume of backfill behind sidewall stabilization (cu yd) G. BOAT LAUNCH (No Sample Drawing available) (check all that apply) Proposed overall boat launch dimensions (ft) length width depth Existing overall boat launch dimensions (ft) Length width depth Distances of launch from both property lines (ft)	Will filte (If Yes,)	rfabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro ure? No Yes nearest adjacent structures (ft) leng at well from adjacent property lines of private commercial replacements and private depth Skid pier	rap? No Yes Fabric project perty lines (ft) gth width (ft) cement
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply) riprap – length (ft.) seawall/bulkhead – length (ft.) E. DOCK - PIER – MOORING PILINGS (See Sample Drawing 10) Type open pile filled orib Proposed structure dimensions (ft) length width F. BOAT WELL (No Sample Drawing available) Type of bank stabilization wood steel concrete vinyl Boat well dimensions (ft) Length width depth Volume of backfill behind sidewall stabilization (cu yd) G. BOAT LAUNCH (No Sample Drawing available) (check all that apply) Proposed overall boat launch dimensions (ft) length width depth Existing overall boat launch dimensions (ft) Length width depth Distances of launch from both property lines (ft) H. BOAT HOIST (No Sample Drawing available)	Will filte (If Yes,)	rfabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro rure? No Yes nearest adjacent structures (ft) leng s at well from adjacent property lines of private commercial replacements and private depth Skid pier	rap? No Yes Fabric project perty lines (ft) gth width (ft) cement
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply) riprap – length (ft.) seawall/bulkhead – length (ft.) E. DOCK - PIER – MOORING PILINGS (See Sample Drawing 10) Type open pile filled orib Proposed structure dimensions (ft) length width F. BOAT WELL (No Sample Drawing available) Type of bank stabilization wood steel concrete vinyl soat well dimensions (ft) Length width depth Volume of backfill behind sidewall stabilization (cu yd) G. BOAT LAUNCH (No Sample Drawing available) (check all that apply) Proposed overall boat launch dimensions (ft) length width depth Existing overall boat launch dimensions (ft) Length width depth Distances of launch from both property lines (ft) H. BOAT HOIST (No Sample Drawing available) (Check all that apply) seasonal permanent cradle side lite	Will filte (If Yes,)	cr fabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro ure? No Yes nearest adjacent structures (ft) lenguals s at well from adjacent property lines of private commercial replacements and private depth ft) below ordinary high water mark depth Skid pier dimensions (ft) width ler	rap? No Yes Fabric project perty lines (ft) (ft) cement
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply) riprap - length (ft.) seawall/bulkhead - length (ft.) E. DOCK - PIER - MOORING PILINGS (See Sample Drawing 10) Type open pile filled crib Proposed structure dimensions (ft) length width F. BOAT WELL (No Sample Drawing available) Type of bank stabilization wood steel concrete vinyl soat well dimensions (ft) Length width depth Volume of backfill behind sidewall stabilization (cu yd) G. BOAT LAUNCH (No Sample Drawing available) (check all that apply) Proposed overall boat launch dimensions (ft) length width depth Existing overall boat launch dimensions (ft) Length width depth Distances of launch from both property lines (ft) H. BOAT HOIST (No Sample Drawing available) (Check all that apply) seasonal permanent cradle side life other	Will filte (If Yes,)	rfabric be used under proposed rip. type) Nonwoven Geotextile Distances of p. from both pro ure? No Yes nearest adjacent structures (ft) leng s at well from adjacent property lines of private commercial replacements and private depth stone of the depth skid pier dimensions (ft) width length depth len	rap? No Yes Fabric project perty lines (ft) gth width (ft) cement
Type of riprap field stone angular rock other D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17 (check all that apply) riprap – length (ft.) seawall/bulkhead – length (ft.) E. DOCK - PIER – MOORING PILINGS (See Sample Drawing 10) Type open pile filled orib Proposed structure dimensions (ft) length width F. BOAT WELL (No Sample Drawing available) Type of bank stabilization wood steel concrete vinyl soat well dimensions (ft) Length width depth Volume of backfill behind sidewall stabilization (cu yd) G. BOAT LAUNCH (No Sample Drawing available) (check all that apply) Proposed overall boat launch dimensions (ft) length width depth Existing overall boat launch dimensions (ft) Length width depth Distances of launch from both property lines (ft) H. BOAT HOIST (No Sample Drawing available) (Check all that apply) seasonal permanent cradle side lite	Will filte (If Yes,)	rfabric be used under proposed rip. type) Nonwoven Geotextile [ft.) Distances of p. from both pro rure? No Yes nearest adjacent structures (ft) leng s at well from adjacent property lines of private commercial replacements and private depth skid pier dimensions (ft) width leng d on seawall dock and 6. Provide table if necessary)	rap? No Yes Fabric project perty lines (ft) (ft) cement

US Army Corps of Engineer	s (USACE)	eam t	Zelaca	chigan Department of Environme	ental Quality	(MDEQ)	DE@
13 FLOODPLAIN ACTIVITIES (See Sample D					18		
 Attach additional sheets with the requested in 	formation when r	nultiple floodpl	iain activities a	are included in this application.		* * *	
(check all that apply)	other						
Site is feet above 🗌 ordinary high water	mark (OHWM) (OR 🗌 observe	ed water level	. Date of observation (M/D/Y) /	1		
Fill volume below the 100-year				Compensating cut volume below the			
floodplain elevation (cu yd)	t and Cart Dridge			100-year floodplain elevation (cu yd)			
 BRIDGES AND CULVERTS (Including Foo Provide detailed site-specific drawings of exit 	sting and propos	∌s) ed <i>Plan View</i> (Sample Draw	ring 14A), Elevation View (Sample Drawin	g 14B), Stream	and Floodpl	ain
Cross-Section (Sample Drawing 14C), Stream	m Profile (Sampl	e Drawing 14D)) and Floodp	<i>lain</i> Fill (Sample Drawing 5) at a scale ade	quate for detai		
 Provide the requested information that applie If you choose to have a Licensed Profession 						irnes un to a	nd
including the 100-year flood discharge, then	you must use the	Required Ce	ertification Lan	guage." You may request a copy by phor	ne, email, or ma	il. A hydrau	lic
report supporting this certification may also l		multiple orogai	inan oro in o lu	dad in this application			
 Attach additional sheets with the requested in 	normation when	Existing	Proposed	цей III IIIs арріісацогі.		Existing	Proposed
Culvert type (box, circular, arch) and material		Existing	Froposeu	Bridge span (length perpendicular to stre	am)	LAISHING	rioposeu
(corrugated metal, timber, concrete, etc.)				OR culvert width diameter (ft)	am)		
Bridge type (concrete box beam, timber,				Bridge width (parallel to stream)			
concrete I-beam, etc.) Entrance design				OR culvert length (ft) Bridge rise (from bottom of beam to streat	ambed) OR		
(projecting, mitered, wingwalls, etc.)	·			Culvert rise (from top of culvert to stream			
Total structure waterway opening above streambed (sq ft)							
	Upstream			Higher elevation of Culvert invert OR	Upstream		
elevation of culvert crown	•			streambed within culvert (ft)			
bottom of bridge beam (ft)	Downstream				Downstream		-
Elevation of road grade at structure (ft)				Distance from low point of road to mid-point of bridge crossing (ft)			
Elevation of low point in road (ft)							•
Cross-sectional area of primary channel (sq ft)			Augrama atra	are width at OLIVA/BA	Upstream		
(See Sample Drawing 14C)				am width at OHWM Iffluence of the structure (ft)	Downstre		
Reference datum used (show on plans with descri	etion) \square NGV/			akes coastal areas)			
High water elevation – describe reference point an	•		<u> </u>				
riigh water elevation — describe reference point an	a nightest known	Water sever ab	OVO OI BOION	relations point and date of esservation.			
15 STREAM, RIVER, OR DRAIN CONSTRUC							
Complete Section 10A for fill, Section 10B for of life side casting or other proposed activities will	dredge or excava	ation, and Sect	ion10C for <i>rip</i>	rap activities.			
 If side casting or other proposed activities will Provide an overall site plan showing existing la 	impact wettands ikes, streams, w	or <i>noouprains,</i> etlands, and ot	ther water fea	tures; existing structures; and the location	of all proposed	structures a	nd land
change activities. Provide cross-section (eleva-	ation) drawings n	ecessary to cle	early show ex	isting and proposed conditions. Be sure to	o indicate draw	ng scales.	
For activities on legally established county dra	********						
(check all that apply)	ovement 🔀 rel	ocation 🔲	enclosure [new drain wetlands other			
Dimensions (ft) of existing stream/drain channel to	be worked on.	length 390'	. v	vidth 4' depth 1.5'			
Dimensions (ft) of new, relocated, or enclosed stre	am/drain channe		S	Volume of Dredge	that direct dullrigrods		
U 1997	depth 1.5*			excavation (cu yds	* ***********	4	
Existing channel average water depth in a normal	year (ft) 1,5°			Proposed side slopes (vertical / horizo	ontal) I on a		
How will slopes and bottom be stabilized?							
Riprap over geotextile fabric, erosion	control mul	ch blankets	and <i>new</i>	vegetation.			
MEN ald/analysis of stream sharped by heal/filled to te	an of book grade		Von	Length of channel		fill (cu yds)	
Will old/enclosed stream channel be backfilled to to				to be abandoned (ft) 390	86.7		
If an enclosed structure is proposed, check type [Dimensions of the structure size length	concrete [corrugated	metal [_] me of fill	plastic other		•	
Will spoils be disposed of on site? No Yes	(If Vac. show los			n an unland area \ Decirit assisting	tnoon		
	-				24 F. C. MITH		
Reference datum used (show on plans with descrip	otion) 🗌 NGVE	29 🗌 IGLD	985 (Great La	kes coastal areas) 🗵 local 97.6			



US Army Corps of Engineers (USACE)	D:~	Michiga	an Departm	ent of Enviro	onmental Qual	ity (MDEQ) DEQ	
10 PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOC	ATEDON	ANI MILANDI	VKE UD GID	EAM OR A GRE	ATIAKE		
Check boxes A through N that may be applicable to your project and projec	rovide the r	equested infor	mation	LAM ON A GILL	AT LAKE		
 If your project may affect wetlands, also complete Section 12. If your project may affect wetlands, also complete Section 12. 	roiect may	impact regulat	ted floodplains	s, also complete s	Section 13.		
Provide an overall site plan showing existing lakes, streams, wetlands,	and other	vater features:	existing struc	ctures; and the lo	cation of all propos	ed structures, land	
change activities and soil erosion and sedimentation control measures.	Review s	ample drawing	s for guidance	e in completing si	te-specific drawing	s for your project.	
Some projects on the Great Lakes require an application for conveyance	ce prior to	loint Permit Ap	plication com	pleteness.			
● On a Great Lake use IGLD 85 ☐ surveyed ☐ converted from observ	ed stili wate	er elevation. O	n inland wate	ers, 🔲 NGVD 29	local datum	other	
Observed water elevation (ft) , date of observation (M/D/Y)		' /					
A. PROJECTS REQUIRING FILL (See All Sample Drawings)							
 To calculate volume in cubic yards (cu yd), multiply the average len 	gth in feet	(ft) times the av	verage width ((ft) times the ave	rage depth (ft) and	divide by 27.	
 Attach both plan and cross-section views to scale showing maximul 	m and aver	age fill dimens	sions.				
(Check all that apply)	ri	-		lkhead, or revetm		or culvert	
☐ boat launch ☐ off-shore swim area ☐ beach sanding	j □ b		crib dock		other		
Fill dimensions (ft)		Tot	tal fill volume	(cu yd)	Maximum water		
Length width maximum depth					depth in fill area (f		
Type of clean fill pea stone sand gravel			1		under proposed fill	?	
wood chips other			No	Yes (If Yes,	type)		
Source of clean fill on-site, If on-site, show location on site plan				her, attach descri			
Fill will extend feet into the water from the shoreline and uplan		eet out of the w			olume below OHW		
■ B. PROJECTS REQUIRING DREDGING OR EXCAVATION (For dre	dging proje	cts see Sample	e Drawing 7, 1	for excavation se	e other applicable	Sample Drawings)	
To calculate volume in cubic yards (cu yd), multiply the average len	gth in feet	(ft) times the a	verage width ((ft) times the aver	rage depth (ft) and	divide by 27.	
 Attach both plan and cross-section views to scale showing maximum 	m and aver	age dredge or	excavation di	mensions.			
The applicant will be notified if sediment sampling is required.	1		г .	eastall bullshaad	Larramant		
	-	e or draining		eawall, bulkhead	, or reveirnent	•	
	it launch	Drodenla			Mothod and cauje	ment for dredging	
Total dredge/excavation Dimensions	lonth	OHWM (d	xcavation volu	urie pelow	Method and equip	intentior dieaging	
1014110 (04)4)	lepth			laced on site	Off-site Attack	n a detailed disposal area	
Has proposed dredge material been tested for contaminants? No Yes (If Yes, attach testing results)	site plan,	location map.	If dispose off	site, provide addr	ess and letter of a		
Has this same area been previously dredged? ☐ No ☐ Yes (If Ye			t number, if av	vailable) .	/ / /	•	
If Yes, are you proposing to enlarge the previously dredged area	No 🗌 Yes						
Is long-term maintenance dredging planned? No Yes (If Yes,	when and	now much?)					
C. PROJECTS REQUIRING RIPRAP (See Sample Drawings 2, 3, 8,	12, 14, 17	, 22, and 23. C	Others may ap	oply)			
Riprap waterward of the shoreline OR ordinary high water me	1	ensions (ft) lei	whet		n 1.5	Volume(cu yd) 5.6	
Riprap landward of the Shoreline OR ordinary high water mark	Dim	ensions length	h 30 widt	th 20 depth	0.75	Volume(cu yd) 16,6	
Triplay landward of the Storothic Critical Statical y man water man		<u>. </u>				ap? ☐ No ☒ Yes	
Type of riprap field stone ☐ angular rock ☐ other			(If Yes, ty	ype) geotext i	le		
D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3,	and 17)	*************************************			XXX		
(check all that apply)					Distances of pr	oject	
☐ riprap — length (ft.) ☐ seawallibulkhead — length (f	ft.)	revetme	ent – length (ft	t.)	from both prop	erty lines (ft)	
E. DOCK - PIER - MOORING PILINGS (See Sample Drawing 10)							
Type open pile filled crib				re? 🗌 No 🔲 Y			
Proposed structure dimensions (ft) length width		Dim	nensions of ne	arest adjacent st	ructures (ft) lengt	h width	
F. BOAT WELL (No Sample Drawing available)							
Type of bank stabilization wood steel concrete vin	yl 🗌 ripr	·	***				
Boat well dimensions (ft)		Nur	mber of boats				
Length width depth							
Volume of backfill behind sidewall stabilization (cu yd)		Dist	tances of boar	t well from adjace	ent property lines (f	t)	
G. BOAT LAUNCH (No Sample Drawing available) (check all that a	n Vlaga	ew existing	public] private ☐ com	mercial 🗌 replace	ement	
Proposed overall boat launch dimensions (ft)	, <u>, , ,</u>						
length width depth		type of mate	rial ∐ conc	rete 🔲 wood 🗀	stone 🗌 other		
Existing overall boat launch dimensions (ft) Boat launch dimensions (ft) below ordinary high water mark							
Length width depth		Length	wid	th	depth		
Distances of launch	Number o	of		Skid <i>pier</i>			
from both property lines (ft)	skid <i>pier</i> s			dimensions (ft) v	vidth leng	gth	
H. BOAT HOIST (No Sample Drawing available)						-	
(Check all that apply) seasonal permanent cradle	side lifter		lanatad	on Seawall	☐ dock ☐ b	oottomlands	
other	ODDI VING	(See Sample				оконнания	
				1		width	
(Check all that apply) boardwalk deck Boardw	alk or deck	is on 🔲 fill	Diling	Dimensio	ns (ft) length	WIUIII	

US Army Corps of Er	ngineers (USACE)	affet'	Pize	Michiga	n Departmen	t of En	vironmenta	al Quali	ty (MDEQ) DE®
10 Continued - PROJECTS IMP			AINS ÓR	LOCATED	ON AN INLAND	LAKE O	R STREAM O	R A GRE	AT LAKE
J. INTAKE PIPES (See Sample Dr	awing 16) 🔀 OUTLET	PIPES (See S	ample D	rawing 22)					
Type ☐ headwall ☐ end se	ction		San grant mag	t pipe, disch	-		inland lal	Ke	
⊠ pipe ☐ other			<u>≥</u> Stre	eam, drain, d		eat Lake		Dina diam	ators and invest
Dimensions of headwall	1.161. 2011	40-	ee.		Number o	r pipes	L.	•	eters and invert
OR end section (ft) length 8	width 4'	depth 4	ä				h h	elevations	THE RESIDENCE OF THE PROPERTY OF SELECTION AND SELECTION ASSESSED.
								3' abov	e stream bottom
☐ K. MOORING AND NAVIGATION									
Provide an overall site plan sho					snore to each but	oy, and d	eptn of water a	at each di	loy in feet.
Provide cross-section drawing(s			nensions	3.	<u> </u>				
Number of buoys	Type of and	nor system	1				mooring [tion swimming
Dimensions of buoys (ft)					perty along the s				
	eight		If No, y	ou must pro	vide an authoriza	tion lette	r from the prop	erty owne	er(s)
L. GROINS (No Sample Drawing a				d .				d	and the second second
Provide an overall site plan show					erty lines, distance	es betwe	en <i>groin</i> s, ieng	ith and wi	otn of each <i>groin</i> ,
and the distance from the existin					haring aroin to us	our propo	etu linaa on the	a cita plan	
 If existing groins are located on a Provide cross-section views shown 	ving the length and heid	riue distances (i tht of each aroin	n) nom c	height of a	roin ande shova ti	ha ohear	ved water leve	t sile piai I (data an	d time). If etan down type
show the height of each section	wing the religin and help shove the observed wat	jnt oreach <i>gron.</i> er level	r and the	s neight or y	OUT CHOS SDOVE II	iie onsei	ved water leve	i (Gale ali	a time). n step down type
Number of groins	Type of <i>groin</i> steel		W	ill <i>aroin</i> be p	laced on a founda	ation?	No Yes	(If Yes. d	mensions of foundation
Trainiber of growns	other		i i)) length	wid			height	
M. FENCES IN WETLANDS, STRI		INS (No Sample	, ,	<u> </u>		****		noigne	
Provide an overall site plan show									
Provide drawing of fence profile						om aroui	nd to battom of	f fence (if	in a floodolain).
(check all that apply)		l length (ft) of fe			9) 0110 010101100 11				e and material
wetlands streams floods			reams	-	dplains		3.1(3)		
N. OTHER - e.g., structure removal	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					wetland	s or floodplain	s	
Cigi, di dolaro formova	,, ,			,				_	
11 EXPANSION OF AN EXISTING O	R CONSTRUCTION O	F A NEW I AKE	OR PO	ND (See Sa	mple Drawings 4	and 15)			
Which best describes your proposed wat				NB (000 00	inpro Brawingo T	and 107			
☐ wildlife ☐ stormwater retention		er detention bas	sin 🗆	recreation	wastewat	ter basin	other		
Water source for lake/pond	20000	or doloimon bac	J.17				<u></u>		
groundwater natural springs	☐ Inland Lake or Si	tream 🗍 stor	rmwater	runoff []pump 🗌 s	ewage	other		
Location Of the lake/basin/pond	floodplain		land	<u> </u>	upland				
				. , ,	•				W. C.
Will project involve construction of a dam				No Yes	(If Yes, complete	Section	17)		
12 ACTIVITIES THAT MAY IMPACT	•		,						
For information on the MDEQ's Wetl	and Assessment Progra					. /Castia	- 401) [] dou	rotonin m	
(check all that apply) [fill (Section 10	, -	excavation (Sec			boardwalk or decl	_		ratening	
	on 10M) Dibridges ar				draining surface w		other		and a
Has a professional wetland delineation be	een conducted for this p	arcer/ I No L	res	(IF Yes, prov	ide a copy; ir iede	erai pa In	pplicant purch		erty October 1, 1980.
method was used, supply data sheets)	a proportie? □ No □	1 Vac /If Vac p	rouido th	o numborl		IL.	Theroie OV	L anc	October 1, 1300.
Is there a recorded DEQ easement on the									
Has the MDEQ conducted a wetland ass	essment for this parcel?	No LYe	s (If Ye	s, provide a	copy)				
Describe the wetland impacts, proposed		d efforts to avoid	d/minimi	ze impacts.	Describe the wet	land alte	rnatives and p	rovide the	type and amount of
mitigation proposed if more than 1/3 acre	is to be impacted.								
ls any grading or mechanized land clearing	na proposed? 🗌 No 🛭	Yes							and clearing been
(If Yes, show locations on site plan)	3				1 .	NO 🗀	Yes (ITYES, IS	idei and s	how locations on site
	land fill disconsion inform	nation for each i	inon a ata a	d watland or	plan)				
 Complete the wetland dredge and wetl Attach additional sheets if necessary a 						looot on	a tunical arana	agation fo	r agab watland
 Attach additional sheets in necessary a dredge and/or fill area. Also complete 						ICASE VIII	typicar cross-	PEPRON IC	FEAUTI WERAIIU
 If dredge material will be disposed of or 						on and se	edimentation c	ontrol me	asures
		maximum width		dredge area			average depth		dredge volume (cu yd)
Trolland drodge dimensions	mazamarr tongar (tt)		. (7	acres [12	
Wetland fill dimensions	maximum length (ft)	maximum width	(ft)	fill area			average depth	/ft)	fill volume (cu yd)
Wetland till dimensions	maximum lengtir (it)	maximum wan	. (11)	acres [∃ en ft		arolago aopili	\'''	iiis rolumo (ou yu)
Total wetland dredge area		l		r-1 anco F	Total wetland				
acres sq ft Total wetland fill area					Total wetland	ou juj			
					fill volume (cu yd	١			
acres sq ft The proposed project will be serviced by	nublic sower		I		im voidine (ca ya	/		If You h	as permit been issued?
private septic system (If septic system		w or	If sention	system, ha	s application been	n made to	the	□ No	
expanded system on plans)	, J Gracting and no	- -			artment for a perm				rovide a copy)



US Army Corps of Engineers (USACE)	replacement @ Bod Creek
10 PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOCATED OF	N AN INLAND LAKE OR STREAM OR A GREAT LAKE
Check boxes A through N that may be applicable to your project and provide the	
If your project may affect wetlands, also complete Section 12. If your project ma	
	er water features; existing structures; and the location of all proposed structures, land
	sample drawings for guidance in completing site-specific drawings for your project.
Some projects on the Great Lakes require an application for conveyance prior to	
On a Great Lake use IGLD 85 ☐ surveyed ☐ converted from observed still was a converted from observed from observed still was a converted from observed from observed still was a converted from observed fro	
	2/2005
A. PROJECTS REQUIRING FILL (See All Sample Drawings)	
	et (ft) times the average width (ft) times the average depth (ft) and divide by 27.
Attach both plan and cross-section views to scale showing maximum and avi Chapter III that apply The data is fill	
	riprap ☐ seawall, bulkhead, or revetment ☐ bridge or culvert boatwell ☐ crib dock ☐ other ☐ OHWM
boat launch off-shore swim area beach sanding Fill dimensions (ft)	boatwell crib dock other OHWM Total fill volume (cu yd) Maximum water
Length 5 width 3 maximum depth 2" OHWM	225,9 Total depth in fill area (ft) 2
Type of clean fill pea stone sand gravel	Will filter fabric be used under proposed fill?
wood chips other	Will inter rapide be used union proposed this: No ☐ Yes (If Yes, type)
	XXAXXX
Tanah Assault	ommercial other, If other, attach description of location
Fill will extend 3 feet into the water from the shoreline and upland 2 feet out	
B. PROJECTS REQUIRING DREDGING OR EXCAVATION (For dredging pro	
	et (ft) times the average width (ft) times the average depth (ft) and divide by 27.
Attach both plan and cross-section views to scale showing maximum and average and the section of the secti	rerage dredge or excavation dimensions.
The applicant will be notified if sediment sampling is required. (Check all that apply) floodplain excavation wetland dred wetland dred	dge or draining
navigation boat well boat launch	seawai, builtiead, of reveniment
Total dredge/excavation Dimensions	Dredge/excavation volume below Method and equipment for dredging
volume (cu yd) 51.1 length 5 width 3 depth 2 OHWA	OHWM (cu yd) 1.1 Backhoe
Has proposed dredge material been tested for contaminants? Will dred	dged or excavated spoils be placed on-site off-site. Attach a detailed disposal area
	n, location map. If dispose off site, provide address and letter of authorization.
Has this same area been previously dredged? No ☐ Yes (If Yes, provide	e date and permit number, if available) / / /
If Yes, are you proposing to enlarge the previously dredged area No Yes	es
is long-term maintenance dredging planned? M No	d how much?)
C. PROJECTS REQUIRING RIPRAP (See Sample Drawings 2, 3, 8, 12, 14, 1	17, 22, and 23. Others may apply)
Riprap waterward of the ☐ shoreline OR █ ordinary high water mark Dir	mensions (ft) length 36 width 2 depth 1 Volume(cu yd) 2.7
	SECRETARIA SOCIAL SECRETARIA SECRE
Riprap landward of the Shoreline OR ordinary high water mark	mensions length #00 width 2 depth 1 Volume(cu yd) #4 Will filter fabric be used under proposed riprap? ☐ No ☑ Yes
Type of <i>riprap</i> ☐ field stone ☑ angular rock ☐ other	(If Yes, type) Geotextile
D. SHORE PROTECTION PROJECTS (See Sample Drawings 2, 3, and 17)	(ii i co, iype) coc came
(check all that apply)	Distances of project
riprap – length (ft.) seawail/bulkhead – length (ft.)	revetment – length (ft.) from both property lines (ft)
E. DOCK - PIER - MOORING PILINGS (See Sample Drawing 10)	
Type open pile filled crib	Seasonal structure? No Yes
Proposed structure dimensions (ft) length width	Dimensions of nearest adjacent structures (ft) length width
F. BOAT WELL (No Sample Drawing available)	
	prap 🔲 other
Boat well dimensions (ft)	Number of boats
Length width depth	
Volume of backfill behind sidewall stabilization (cu yd)	Distances of boat well from adjacent property lines (ft)
G. BOAT LAUNCH (No Sample Drawing available) (check all that apply)	new existing public private commercial replacement
Proposed overall boat launch dimensions (ft)	
length width depth	Type of material concrete wood stone other
Existing overall boat launch dimensions (ft)	Boat launch dimensions (ft) below ordinary high water mark
Length width depth	Length width depth
Distances of launch Number	
from both property lines (ft) skid pier	rs dimensions (ft) width length
H. BOAT HOIST (No Sample Drawing available)	
(Check all that apply) ☐ seasonal ☐ permanent ☐ cradle ☐ side lifter ☐ other	located on seawall dock bottomlands
	located on [_] seawaii
(Check all that apply) boardwalk deck Boardwalk or decl	
, things an analogophic position the factor of positionally of the contract of	

US Army Corps of Engineers	(USACE)	dae Re	Mich Mich	nigan Department of En	vironmen	tal Quality	y (MDEQ)	DEQ	
 FLOODPLAIN ACTIVITIES (See Sample Drawn Attach additional sheets with the requested info 			ain activities a	re included in this application.					
(check all that apply) A fill Excavation	other						****		
Site is 6 feet above □ ordinary high water mark	(OHWM) OR	observed wa	ater level. Dat	e of observation (M/D/Y) 12/	03/2008				
Fill volume below the 100-year				Compensating cut volume 100-year floodplain elevation					
floodplain elevation (cu yd) 205 14 BRIDGES AND CULVERTS (Including Foot	and Cart Bridge	es)		100-year 11000prain elevalid	oir (cu yu) 🚡				
 Provide detailed site-specific drawings of exist 	ing and propose	ed <i>Plan View</i> (\$	Sample Drawi	ng 14A), Elevation View (Samp	le Drawing	14B), Stream	and Floodpi	ain	
 Cross-Section (Sample Drawing 14C), Stream Provide the requested information that applies 	Profile (Sample to your project.	e Drawing 14D . If there is not	i) and Floodpla an existing st	ain Fill (Sample Drawing 5) at a ructure, leave the "Existing" co	scale adeq umn blank.	uate for detai	ilea review.		
 If you choose to have a Licensed Professional including the 100-year flood discharge, then yo 	Engineer *certi	fy" that your pr	oject will not d	ause a "harmful interference" f	or a range o	f flood discha	arges up to a	nd lic	
report supporting this certification may also be	e required.			•	y by pitolic	, eman, or me	ali. A liyuldu		
 Attach additional sheets with the requested inf 	ormation when			ed in this application.			Tuintin n	Dranand	
Culvert type (box, circular, arch) and material		Existing	Proposed	Bridge span (length perpendicu	ilar to strear	m)	Existing 18	Proposed 38	
(corrugated metal, timber, concrete, etc.)				OR culvert 🗌 width 🔲 diam	eter (ft)			DATE:	
Bridge type (concrete box beam, timber, concrete I-beam, etc.)				Bridge width (parallel to stream OR culvert length (ft))		18	38	
Entrance design		box beam Winawalls	Winawalls	Bridge rise (from bottom of bea	m to stream	nbed) OR	5	6	
(projecting, mitered, wingwalls, etc.) Total structure waterway opening			228	Culvert rise (from top of culver	t to streamb	ed) (ft)	9000.56	a.c.	
above streambed (sq ft)		90	N. commune						
elevation of culvert crown	Upstream	109	110	Higher elevation of Culvert		Upstream	103	103	
bottom of bridge beam (ft)	Downstream	109	110	streambed within culvert (ft		Downstream	102.9	102.9	
Elevation of road grade at structure (ft)		112.5		Distance from low point of road to mid-point of bridge crossing			300	300	
Elevation of low point in road (ft)		112.2	113.5						
Cross-sectional area of primary channel (sq ft) (See Sample Drawing 14C) 154.8			Average stream width at OHWM outside the influence of the structure (ft) Downstream 18						
Reference datum used (show on plans with descript	ion) 🗆 NGV/		L			Bomise	oan ee		
High water elevation – describe reference point and					ervation.				
I light rate. Cleration accounts to the point and				,					
15 STREAM, RIVER, OR DRAIN CONSTRUC Complete Section 10A for fill, Section 10B for de	TION ACTIVITI redge or excava	ES (No sample ation, and Secti	e drawing avai ion10C for <i>rioi</i>	lable) ap activities.					
 If side casting or other proposed activities will in 	npact wetlands	or floodplains,	complete Sec	tions 12 and 13, respectively.	1		-l - &l		
 Provide an overall site plan showing existing lake change activities. Provide cross-section (elevated) 	tes, streams, we ion) drawings n	etiands, and ot ecessary to cle	her water teat early show exi	ures; existing structures; and the sting and proposed conditions.	e location o Be sure to	ा all proposed indicate draw	a structures a ring scales.	ing iang	
 For activities on legally established county drain 	s, provide origi	nal design and	proposed dim	ensions and elevations.					
(check all that apply) maintenance improve	rement re	location	enclosure [new drain wetlands	other				
Dimensions (ft) of existing stream/drain channel to b	e worked on.	length	w	idth depth					
Dimensions (ft) of new, relocated, or enclosed strea) .		1	of Dredge/ on (cu yds)				
length width de Existing channel average water depth in a normal ye	epth ear (ft)			Proposed side slopes (verti		ntal)			
How will slopes and bottom be stabilized?									
TOW WIN BIOLOGICA BORROW BO STABILLESS									
Will old/enclosed stream channel be backfilled to to	o of bank grade	? 🗌 No 🔲 `	Yes	Length of channel to be abandoned (ft)		Volume o	of fill (cu yds)		
If an enclosed <i>structure</i> is proposed, check type Dimensions of the structure size length] concrete	corrugated	metal [] me of fill	olastic					
Will spoils be disposed of on site? \(\square\) No \(\square\) Yes (If Yes, show loo			an <i>upland</i> area.)					
Reference datum used (show on plans with descript									

Joint Permit Application Page 5 of 7 EQP 2731 Revised 12/2005

Bridge Replacement

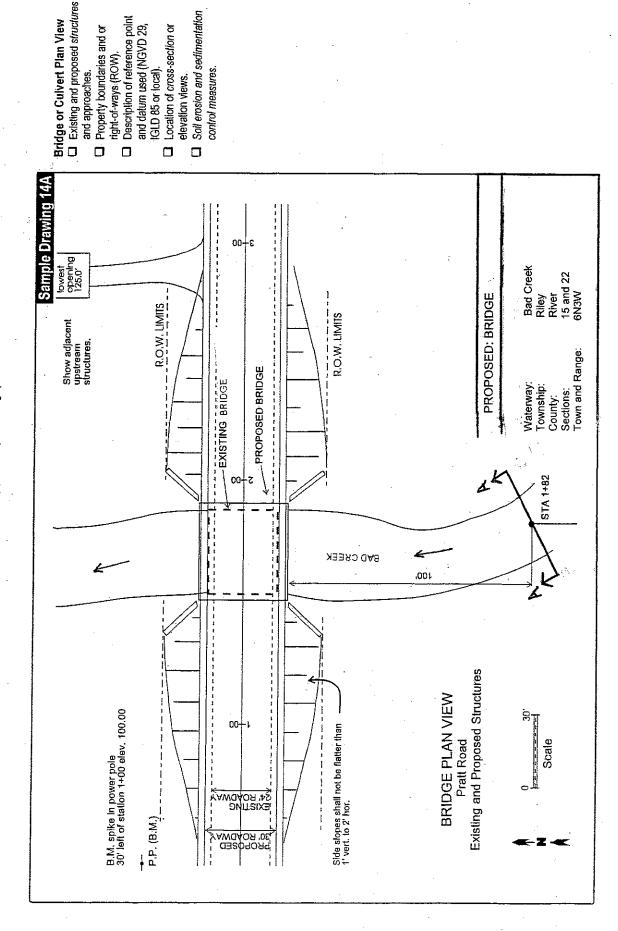
Proposed Bridges and Culverts:

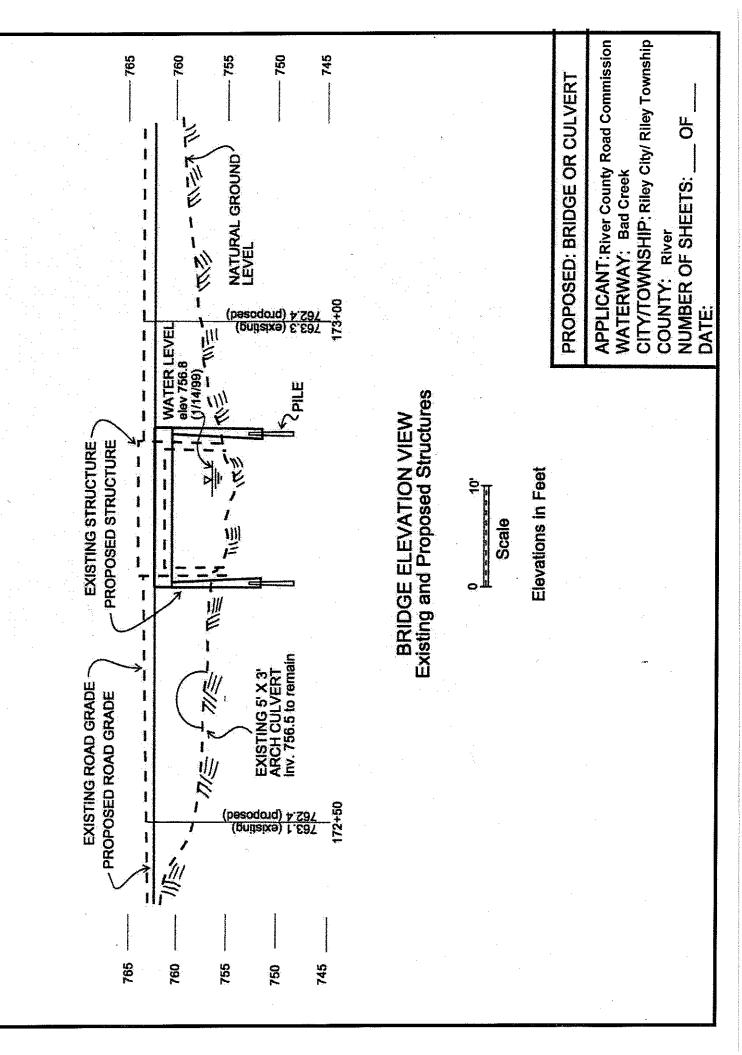
Complete Section 14 and Sections 10A, 10B, 10C, 12, 13, and 15 if applicable to your project.

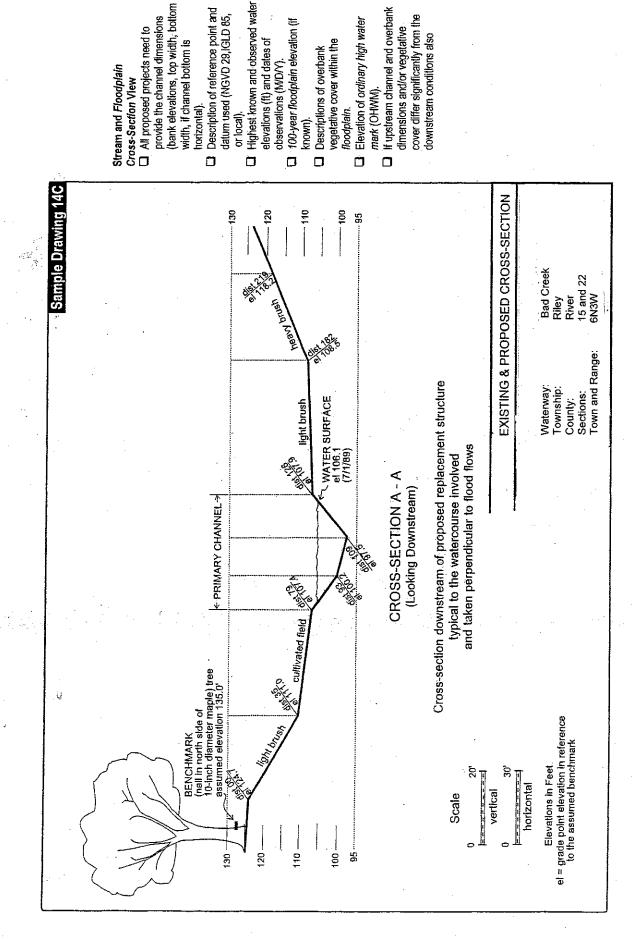
C Provide an overall site plan showing existing lakes, streams, wetlands, and other water features. Include name of waterbodies, property boundaries, and neighboring property owner

Drovide detailed site specific drawings of existing and proposed Plan View (Sample Drawing 14A), Elevation View (Sample Drawing 14B), Stream and Floodplain Cross-Sections (Sample Drawing 14C), and Stream Profile (Sample Drawing 14D) adequate for detailed review.

☐ If your project includes floodplain fill complete Section 13 and include a site-specific drawing (See Sample Drawing 5).



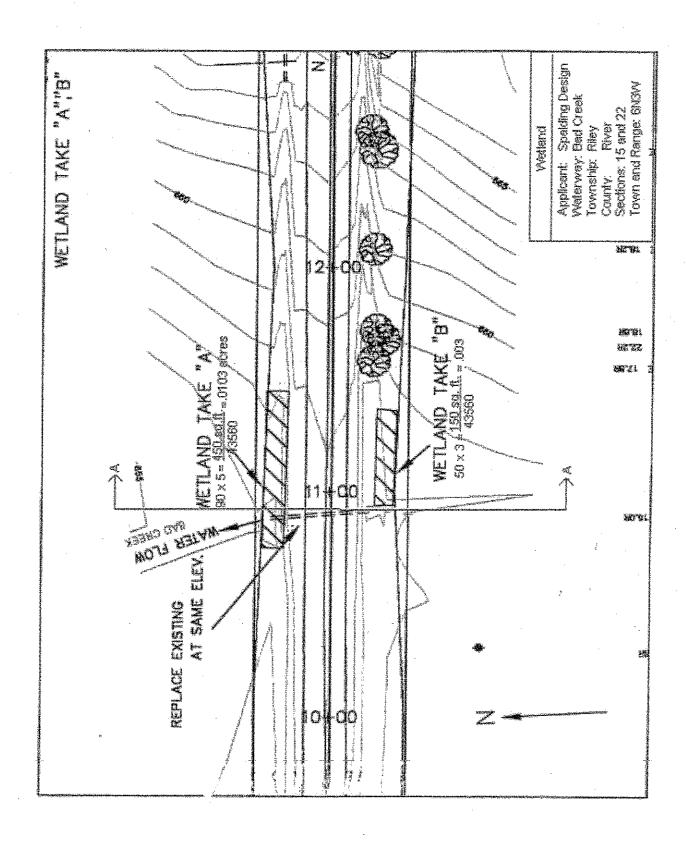




US Army Corps of Engineers (USACE)

Wetland Michigan Department of Environmental Quality (MDEQ)

	S IMPACTING WETLANDS			N INLAND LAKE O	R STREAM	OR A GREAT LAKE
☐ J. INTAKE PIPES (See Sam						
	end section		If outlet pipe, discharge is		🔲 inland l	ake
pipe other			stream, drain, or rive		other	
Dimensions of headwall				Number of pipes		Pipe diameters and invert
OR end section (ft) length	width	depth				elevations
K. MOORING AND NAVIGA						
	in showing the distances betw			to each buoy, and o	lepth of wate	rat each buoy in feet.
	wing(s) showing anchoring sy		ensions.			
Number of buoys	Type of and			Purpose of buoy		
Dimensions of buoys (ft)			Do you own the property			
width	height		If No, you must provide a	in authorization lette	r from the pro	perty owner(s)
 If existing groins are located Provide cross-section view show the height of each se 	n showing the distances (ft) of existing toe of the bluff to the ed on adjacent properties, pro is showing the length and hele action above the observed wa	lakeward end of to vide distances (ft ght of each groin ter level.	the groins.) from closest neighborin and the height of groin e	g <i>groin</i> to your propends above the obser	erty lines on t ved water lev	he site plan. vel (date and time). If step down type
Number of groins	Type of groin steel	wood	1		J NO LYe	s (If Yes, dimensions of foundation
	other		(ft)) length	width		height
M. FENCES IN WETLANDS Provide an overall site pla Provide drawing of fence provide drawing of fence provide drawing of fence provided drawing of fence provided drawing of fence provided drawing of fence provided drawing	n showing the proposed fenci profile showing the design, dir Tota floodplains wetl	ing through wetla mension, post spi al length (ft) of fen ands str	nds, streams, or floodpla acing, board spacing, and ice through eams floodplain	d distance from grou Fence h	neight (ft)	Fence type and material
	•					
11 EXPANSION OF AN EXIST	ING OR CONSTRUCTION O	F A NEW LAKE	OR POND (See Sample	Drawings 4 and 15)		
Which best describes your propose			-	,		
wildlife stormwater ret		ter detention bas	in 🗌 recreation [🗌 wastewater basin	other	
Water source for lake/pond						
groundwater natural spr	ings 🔲 Inland Lake or S	itream ☐ storr	nwater runoff 🔲 pun	np 🗌 sewage	other	
Location Of the lake/basin/pond	☐ floodplain	wetta	and upla	nd		
Will project involve construction of	a dam dika autlat control etr	ucture or spillura	√2 □ No □ Vec (If Ve	s complete Section	17)	
	IPACT WETLANDS (See Sa			s, complete Section	11]	
 For information on the MDEQ's 				3_1170		
(check all that apply) S fill (Sect		excavation (Sec		walk or deck (Section	n 10I) d	ewatering
	Section 10M) bridges a		•	· -	other	
Has a professional wetland delinea						hased property
method was used, supply data she				[before O	R 💹 after October 1, 1980.
Is there a recorded DEQ easement		Yes (If Yes, pr	ovide the number)			
Has the MDEQ conducted a wetlar				1		
Describe the wetland impacts, prog					rnatives and	provide the type and amount of
mitigation proposed if more than 1/				$\mathcal{F}_{i}^{(1)}$		
ls any grading or mechanized land (If Yes, show locations on site plan	clearing proposed? No	☑ Yes	Has com plan	pleted? 🔯 No 🗌		echanized land clearing been label and show locations on site
Complete the wetland dredge ar				And the state of		, , , , , , , , , , , , , , , , , , , ,
Attach additional sheets if neces					e typical <i>cros</i>	s-section for each wetland
dredge and/or fill area. Also con If dredge material will be dispose					odimentation	control measures
 If dredge material will be dispose Wetland dredge dimensions 	maximum length (ft)	maximum width		ae suii erusiuri ariu s	average dep	
welland dreuge dimensions	o	Ø	acres sq	ft o	o O	areage volume (ad yd)
Wetland fill dimensions	maximum length (ft) A 90 B 50	maximum width A 5 B 3			average dep A 1.0 B 0.5	
Total wetland dredge area			Tota	l wetland		
acres sq ft				ge volume (cu yd) 🕻	Ď	
Total wetland fill area				wetiand	3	
☑ acres ☐ sq ft <i>D.010±0.0</i>	23=0.013			olume (cu yd) 9.7		
The proposed project will be servic			μ			If Yes, has permit been issued?
private septic system (If septic			If septic system, has app			☐ No ☐ Yes
expanded system on plans)	_		County Health Departme	nt for a permit?	No ∐Yes	(If Yes, provide a copy)



Welland TAKE 'A', 'B'

Road Cross-Section At Wetland Area

Applicant: Spalding Waterway: Bad Creek Township: Riley County: River Sections 15 and 22 Town and Range 6N3W